

5847/404A

Sharp-Cutoff Pentode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Absolute-Maximum Values*):

Voltage (AC or DC). 6.3 ± 0.6 volts

Current at heater volts = 6.3 0.300 amp

Peak heater-cathode voltage:

Heater negative with
respect to cathode. 55 max. volts

Heater positive with
respect to cathode. 55 max. volts

Direct Interelectrode Capacitances:

	<i>Without External Shield</i>	<i>With External Shield^a</i>	
Grid No.1 to plate.	0.05 max.	0.04 max.	$\mu\mu\text{f}$
Grid No.1 to cathode & grid No.3 & internal shield, grid No.2, and heater.	7	7.1	$\mu\mu\text{f}$
Plate to cathode & grid No.3 & internal shield, grid No.2, and heater . . .	2.5	2.9	$\mu\mu\text{f}$

Characteristics, Class A₁ Amplifier:

		b	
Plate Supply Voltage.	150	160	volts
Grid-No.2 Supply Voltage. . . .	150	160	volts
Grid-No.1 Voltage	—	8.5	volts
Cathode Resistor.	110	600	ohms
Transconductance.	12500	12500	μmhos
Plate Current	13	13	ma
Grid-No.2 Current	4.5	4.5	ma

Mechanical:

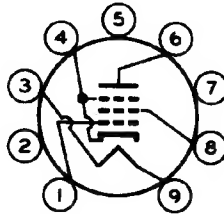
Operating Position.	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length.	1-3/4"
Maximum Seated Length	1-1/2"
Length, Base Seat to Bulb Top (Excluding tip) . . .	1-1/8" \pm 3/32"
Diameter.	0.750" to 0.875"
Dimensional Outline	See <i>General Section</i>
Bulb.	T6-1/2



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Base. Small-Button Noval 9-Pin (JEDEC No.E9-1)
 Basing Designation for BOTTOM VIEW. 9X

Pin 1-Grid No.1
 Pin 2-No Internal
 Connection
 Pin 3-Heater
 Pin 4-Cathode,
 Grid No.3,
 Internal
 Shield



Pin 5-No Internal
 Connection
 Pin 6-Plate
 Pin 7-No Internal
 Connection
 Pin 8-Grid No.2
 Pin 9-Heater

AMPLIFIER — Class A₁

Maximum Ratings, Absolute-Maximum Values:

PLATE VOLTAGE	200 max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE	165 max.	volts
CATHODE CURRENT	40 max.	ma
GRID-No.2 INPUT	0.85 max.	watt
PLATE DISSIPATION	3.3 max.	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance. 0.1 max. megohm

^a With external shield JEDEC No.315 connected to cathode.

^b Operating conditions to minimize gain variations due to supply-voltage fluctuations.

